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	Substitute for form 1449A/PTO			Application Number	New U.S. National Phase Application of PCT/KR2005/000356	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Filing Date	August 3 2006 5 6 5 5 5 9	
				First Named Inventor	Sung et al.	
	(Use as many sheets as nec	essan/)		Art Unit	Not yet assigned	
(occ so many checks so necessary)				Examiner Name	Not yet assigned	
Sheet	1	of	_2	Attorney Docket Number	4240-147	

	U.S. PATENT DOCUMENTS						
Examiner	Cite No.1	Document Number Publica	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
Initials*		Number - Kind Code <sup>2 (if known)</sup>	MM-DD-YYYY				
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FOREIGN PATENT DOCUMENTS										
Examiner Cite No.1		Foreign Patent Document  Country Code <sup>3</sup> - Number <sup>4</sup> - Kind Code <sup>5</sup> (fi	Publication Date MM- DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁵				
		known)								

	NON PATENT LITERATURE DOCUMENTS						
Examiner Initials							
	AA	AGTERBERG, MARJA, ET AL., Outer membrane PhoE protein of Escherichia coli as a carrier for foreign antigenic determinants: immunology of epitop, Vaccine, February 1990, Page(s) 85-91, Volume 8, Number 1					
	AB	CHARBIT, A., ET AL., Presentation of two epitopes of the preS2 region of hepatitis B virus on live recombinant bacteria, J. Immunol., September 1, 1987, Page(s) 1658-1664, Volume 139, Number 5					
	AC	FELICI, FRANCO, ET AL., Selection of antibody ligands from a large library of oligopeptides expressed on a multivalent exposition vector, J. Mol. Biol., November 20, 1991, Page(s) 301-310, Volume 222, Number 2					

Examiner	/Benjamin Blumel/	Date	07/09/2008
Signature	7.201,001	Considered	

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Substitute for form 1449B/PTO  INFORMATION DISCLOSURE				Complete if Known		
				Application Number	New U.S. National Phase Application of PCT/KR2005/000356	
				Filing Date	August 3, 20% 0 / 5 8 3 5 9	
STA	STATEMENT BY APPLICANT			First Named Inventor	Sung et al.	
	(Use as many sheets as ned	raccanyl		Art Unit	Not yet assigned	
	(ose as many sheets as necessary)			Examiner Name	Not yet assigned	
Sheet	Sheet 2 of 2		Attomey Docket Number	4240-147		

NON PATENT LITERATURE DOCUMENTS (cont'd.)					
Examiner Initials*					
	AD	FRANCISCO, J.A., ET AL., Transport and Anchoring of ß-Lactamase to the External Surface of Escherichia coli, April 1, 1992, Page(s) 2713-2717, Volume 89, Number 7			
HART SALES SALES FOR THE PERSON SERVICES	AE	FUCHS, P., ET AL., Targeting recombinant antibodies to the surface of Excherichia coli: fusion to a peptidoglycan associated lipoprotein, Bio/Technology, December 1991, Page(s) 1369-1372, Volume 9, Number 12			
Average of the band from the band of the b	AF	HEDEGAARD, LISBETH, ET AL., Type 1 fimbriae of Escherichia coli as carriers of heterologous antigenic sequences , Gene, December 21, 1989, Page(s) 115-124, Volume 85, Number 1			
**************************************	AG	JUNG, HEUNG-CHAE, ET AL., Surface display of Zymomonas mobilis levansucrase by using the ice-nucleation protein of Pseudomonas syringae, Nature Biotechnology, June 1998, Page(s) 576-580, Volume 16, Number 6			
**************************************	AH	JUNG, H.C., ET AL., Expression of carboxymethylcellulase on the surface of Escherichia coli using Pseudomonas syringae ice nucleation, Enzyme Microb. Technol., April 1998, Page(s) 348-354, Volume 22, Number 5			
	AI	KORNACKER, M.G., ET AL., The normally periplasmic enzyme beta-lactamase is specifically and efficiently translocated through the Escherchia, Molecular Microbiology, July 1990, Page(s) 1101-1109, Volume 4, Number 7			
	AJ	LEE, JONG-SOO, ET AL., Surface-displayed viral antigens on Salmonella carrier vaccine, Nature Biotechnology, June 2000, Page(s) 645-648, Volume 18, Number 6	••••		
N	AK	MEDAGLINI, D., ET AL., Mucosal and Systemic Immune Responses to a Recombinant Protein Expressed on the Surface of the Oral Commensal Bacterium , Proc. Natl. Acad. Sci. USA, July 18, 1995, Page(s) 6868-6872, Volume 92, Number 15			
***************************************	AL	PARRISH, C.R., ET AL., Antigenic relationships between canine parvovirus type 2, feline panleukopenia virus and mink enteritis virus using conv, Arch. Virol., December 1982, Page(s) 267-278, Volume 72, Number 4			
	AM	SIEGL, G., ET AL., Characteristics and taxonomy of Parvovirdae, Intervirology, 1985, Page(s) 61-73, Volume 23, Number 2			

Examiner	/Benjamin Blumel/	Date	07/09/2008
Signature		Considered	

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